

Page 72, lines 11/12; change "6-(4-fluoro-phenyl-amino)-9-ethyl-2-(2-hydroxy-ethyl-amino)-9H-purine" to -- 6-(4-fluoro-phenyl-amino)-2-(2-hydroxy-ethyl-amino)-9-isopropyl-9H-purine --.

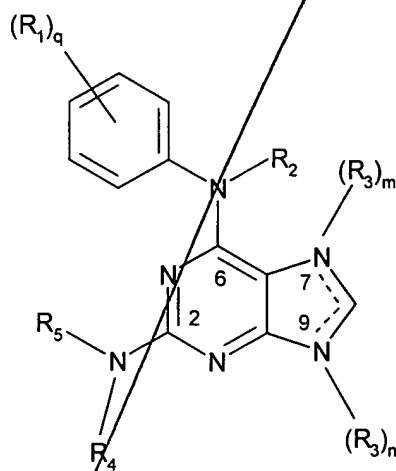
Page 77, line 7; after "of", change "2,6-chloro-6-(3,5-di-trifluoromethyl-" to -- 2-chloro-6-(3,5-di-trifluoro-methyl- --.

IN THE CLAIMS

Please cancel Claims 1, 5 and 7-13.

Please amend Claim 2 as follows:

2. (twice amended) A compound of the formula I [according to claim 1,]



(I)

in which 1 is 1-5,

$R_1$  is halogen[,]<sub>i</sub> lower alkyl[,]<sub>i</sub> hydroxyl [or]<sub>i</sub> lower alkanoyloxy; lower alkoxy which is unsubstituted or substituted by hydroxyl, lower alkoxy or carboxyl; a radical of the formula  $-O(-CH_2-CH_2-O)_t-R_6$ , in which  $t$  is 2-5 and  $R_6$  is hydrogen or lower alkyl; carboxyl[,]<sub>i</sub> lower alkoxycarbonyl[,]<sub>i</sub> piperazin-1-yl-carbonyl [or]<sub>i</sub> carbamoyl; N-lower alkyl-carbamoyl which is unsubstituted in the lower alkyl moiety or substituted by hydroxyl or amino; N,N-di-lower alkyl-carbamoyl[,]<sub>i</sub> cyano[,]<sub>i</sub> nitro[,]<sub>i</sub> amino[,]<sub>i</sub> lower

alkanoylamino[.]; lower alkylamino[.]; N,N-di-lower alkylamino[.]; aminosulfonyl or trifluoromethyl, where, if more than one radical R<sub>1</sub> is present in the molecule, these can be identical or different from one another,

R<sub>2</sub> is hydrogen, carbamoyl or N-lower alkyl-carbamoyl,

m and n are each 0 or 1, where m is 0 if n is 1 and m is 1 if n is 0,

dashed lines represent a single bond which is located between N-7 and C-8 if m is 0 and located between C-8 and N-9 if m is 1.

R<sub>3</sub> is lower alkyl or phenyl which are unsubstituted or in each case substituted by hydroxyl, lower alkoxy, amino, lower alkylamino or N,N-di-lower alkylamino and

a) R<sub>4</sub> is hydrogen[.]; amino[.]; phenylamino[.]; lower alkylamino[.]; hydroxyl[.]; phenoxy [or]; lower alkoxy; an acyl radical of the part formula Z-C(=W)-, in which W is oxygen, sulfur or imino and Z is [hydrogen, hydrocarbyl] R<sup>0</sup>, [hydrocarbyloxy] R<sup>0</sup>-O- or an amino group of the formula R<sub>7</sub>(R<sub>8</sub>)N-, in which R<sup>0</sup> in each case is C<sub>1</sub>-C<sub>4</sub>alkyl, hydroxy-C<sub>2</sub>-C<sub>14</sub>alkyl, cyano-C<sub>1</sub>-C<sub>4</sub>alkyl, carboxy-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxycarbonyl-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>3</sub>-C<sub>7</sub>alkenyl or phenyl and R<sub>7</sub> and R<sub>8</sub> independently of one another are each hydrogen, lower alkyl, ω-amino-lower alkyl, lower alkylsulfonyl or phenyl,

an aliphatic hydrocarbon radical having not more than 29 C atoms, which is substituted by halogen, amino, lower alkylamino, ω-amino-lower alkylamino, lower alkanoylamino, benzoylamino, hydroxylamino, hydroxylimino, lower alkoxy-amino, phenyloxyamino, aminocyclohexyl-amino-, amino-phenyl-amino-, carbamoyl-amino, (N-lower alkyl-carbamoyl)-amino, (N-[ω-amino-lower alkyl]-carbamoyl)-amino, (N-phenyl-carbamoyl)-amino, [thio] mercapto, lower alkylthio, thiocarbamoyl, thioureido, N-lower alkyl-thioureido, N-phenyl-thioureido, guanidino, N-lower alkyl-guanidino, carboxyl, lower alkoxycarbonyl, phenyloxycarbonyl, benzyloxycarbonyl, hydroxylaminocarbonyl, carbamoyl, amidino, cyano, hydroxyl, lower alkoxy, phenyloxy, aminocarbonyl-oxy, oxo, aminosulfonyl, lower alkylsulfonyl-amino, glycylamino, alanyl-amino, phenylalanyl-amino, prolyl-amino, valyl-amino, leucyl-amino, isoleucyl-amino, seryl-amino, threonyl-amino, cysteinyl-amino, methionyl-amino, tyrosyl-amino, tryptophanyl-amino, arginyl-amino, histidyl-amino, lysyl-amino, glutamyl-amino, glutaminyl-amino, asparagyl-amino, asparaginyl-amino or phenylglycyl-amino; benzyl[.]; 2-phenyl-ethyl[.]; 3-aminomethyl-benzyl[.]; (1-hydroxy-cyclohex-1-yl)-methyl[.]; (2-amino-3,5,5-trimethyl-cyclopentyl)-methyl[.]; 1-[N-(1-carboxy-2-phenyl-ethyl)-carbamoyl]-2-carbamoyl-eth-1-yl[.]; 1-carbamoyl-1-phenyl-methyl[.]; 1-carbamoyl-2-(4-hydroxy-phenyl)-eth-1-

C<sup>1</sup>  
 yl[,]; 1-carbamoyl-2-phenyl-eth-1-yl[,]; 2-amino-1,2-diphenyl-eth-1-yl[,]; 2-benzyloxycarbonyl-1-carbamoyl-eth-1-yl[,]; 3-benzyloxycarbonyl-1-carbamoyl-prop-1-yl[,]; 1-adamantyl-2-amino-prop-1-yl[,]; 1-adamantyl-1-amino-prop-2-yl[,]; (2-furyl)-methyl[,]; (2-tetrahydrofuryl)-methyl[,]; 2-pyrid-2-yl-ethyl[,]; 2-piperidino-ethyl[,]; 2-(morpholin-4-yl)-ethyl[,]; 2-(3-indolyl)-ethyl[,]; 2-(4-imidazolyl)-ethyl[,]; 1-carbamoyl-2-( $\beta$ -indolyl)-eth-1-yl[,]; 1-carbamoyl-2-imidazol-4-yl-eth-1-yl[,]; 1-carbamoyl-2-indol-3-yl-eth-1-yl[,]; 3-aminomethyl-oxetan-3-yl-methyl[,]; 1-(acetoxymino)-1-(4-amino-2-oxa-1,3-diazol-5-yl)-methyl[,]; 2-amino-cyclohex-1-yl[,]; 3-amino-cyclohex-1-yl[,]; 2-aminomethyl-3,3,5-trimethyl-cyclopent-1-yl[,]; 3-amino-adamantan-1-yl[,]; 2-carbamoyl-bicyclo[2.2.1]hept-5-en-3-yl[,]; 2-carbamoyl-cyclohex-1-yl[,]; 9-amino-spiro[4.4]non-1-yl[,]; 5-amino-2-oxa-1,3-diazol-4-yl[,]; 4-amino-thien-3-yl[,]; 3-carbamoyl-5-(3-[2,4-dichloro-phenyl]-1-oxo-prop-2-en-1-yl)-1,2-thiazol-4-yl[,]; 3-carbamoyl-5-(3-[4-trifluoro-phenyl]-1-oxo-prop-2-en-1-yl)-1,2-thiazol-4-yl[,]; 4-amino-2-(4-carboxy-butyl)-tetrahydrothiophen-3-yl[,]; 3-amino-2-(4-carboxy-butyl)-tetrahydrothiophen-4-yl[,]; [1,2,5]oxadiazolo[3,4-b](6-amino-pyrazin-5-yl)[,]; 2,5'-diacetyl-3-amino-thieno[2,3-b]thiophen-4'-yl or 3-amino-2,5'-dipivaloyl-thieno[2,3-b]thiophen-4'-yl, and

R<sub>5</sub> independently of R<sub>4</sub>, is as defined above for R<sub>4</sub>, with the exception of hydrogen and an aliphatic hydrocarbon radical having not more than 29C atoms, which is substituted by hydroxyl, or

b) R<sub>4</sub> and R<sub>5</sub> together are 1,2-ethylene, propane-1,3-diyl, butane-1,4-diyl, pentane-1,5-diyl, 3-(3-amino-propionyl)-3-aza-pentane-1,5-diyl, 1-aminomethyl-butane-1,4-diyl, 1-hydroxymethyl-butane-1,4-diyl, 3-(2-amino-ethyl)-pentane-1,5-diyl, 3-aza-pentane-1,5-diyl or 3-(2-amino-ethyl)-3-aza-pentane-1,5-diyl, or a salt thereof.

Claim 3, line 1; change "1" to -- 2 --.

Please amend Claim 4 as follows:

4. (once amended) A compound of the formula I according to claim [1]2, in which

q is 1,

R<sub>1</sub> is chlorine which is in the 3 position,

R<sub>2</sub> is hydrogen,

C<sup>2</sup>  
 Grand  
 Decision

m is 0 and

n is 1,

C2 R<sub>3</sub> is ethyl and

a) R<sub>4</sub> is hydrogen, and

R<sub>5</sub> is amino[,]; phenylamino[,]; lower alkylamino[,]; hydroxyl[,]; phenoxy[,]; loweralkoxy; an acyl radical of the part formula Z-C(=W)-, in which W is oxygen, sulfur or imino and Z is [hydrogen, hydrocarbyl] R<sup>o</sup>, [hydrocarbyloxy] R<sup>o</sup>-O- or an amino group of the formula R<sub>7</sub>(R<sub>8</sub>)N-, in which R<sup>o</sup> in each case is C<sub>1</sub>-C<sub>4</sub>alkyl, hydroxylC<sub>2</sub>-C<sub>14</sub>alkyl, cyano-C<sub>1</sub>-C<sub>4</sub>alkyl, carboxy-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxycarbonyl-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>3</sub>-C<sub>7</sub>alkenyl or phenyl and R<sub>7</sub> and R<sub>8</sub> independently of one another are each hydrogen, lower alkyl, ω-amino-lower alkyl, lower alkylsulfonyl or phenyl;

2-carbamoyl-1-carboxy-eth-1-yl, 3-amino-2-hydroxy-prop-1-yl, 3-amino-prop-1-yl, 3-amino-2,2-dimethyl-prop-1-yl, 3-amino-2-oxo-prop-1-yl, 3-amino-1-carboxy-prop-1-yl, 3-amino-3-carboxy-prop-1-yl, 1,1-dicarbamoyl-methyl, 2-carbamoyl-eth-1-yl, 3-amino-1,3-di-hydroxyl-imino-prop-1-yl, 2-carbamoyl-1-hydroxylimino-eth-1-yl, 1-hydroxylimino-2-thiocarbamoyl-eth-1-yl, 3-amino-3-hydroxylimino-1-thio-prop-1-yl, 3-amino-pent-1-yl, 1-amino-pent-3-yl, 1-amidino-1-carbamoyl-methyl, 4-amino-1,1,1,3,5,5,5-heptafluoro-pent-2-yl, 3-amino-1,3-dicarboxy-prop-1-yl, 2-carbamoyl-1-ethoxycarbonyl-eth-1-yl, 2-amino-1,2-dithio-eth-1-yl, 2-amino-1,2-dioxo-eth-1-yl, 2-amino-2-methyl-prop-1-yl, 1-amino-2-methyl-prop-2-yl, 2-amino-prop-1-yl, 1-amino-prop-2-yl, 2-amino-eth-1-yl, 2-amino-2-carboxy-eth-1-yl, 2-amino-1-carboxy-eth-1-yl, carbamoyl-methyl, 1-carbamoyl-3-methyl-but-1-yl, 2-amino-1,2-dicarboxy-eth-1-yl, 1-carbamoyl-3-methylthio-prop-1-yl, 1-carbamoyl-2-methyl-prop-1-yl, 1-carbamoyl-eth-1-yl, 1-carbamoyl-1-cyano-methyl, 1-carbamoyl-3-carboxy-3-fluoro-prop-1-yl, 1-carbamoyl-2-carboxy-eth-1-yl, 2-amino-4-carboxy-but-1-yl, 1-amino-4-carboxy-but-2-yl, 1-carbamoyl-4-guanidino-but-1-yl, 1-carbamoyl-5-amino-pent-1-yl, 1-carbamoyl-2-hydroxy-prop-1-yl, 1-carbamoyl-2-methyl-but-1-yl, 1-carbamoyl-2-hydroxy-eth-1-yl, 1,3-dicarbamoyl-prop-1-yl, 2-amino-but-1-yl, 1-amino-but-2-yl, 1-carbamoyl-pent-1-yl, 1-carbamoyl-but-1-yl[,]; benzyl, 2-phenyl-ethyl, 3-aminomentyl-benzyl, (1-hydroxy-cyclohex-1-yl-methyl, (2-amino-3,5,5-trimethyl-cyclopentyl)-methyl, 1-[N-(1-carboxy-2-phenyl-ethyl)-carbamoyl]-2-carbamoyl-eth-1-yl, 1-carbamoyl-1-phenyl-methyl, 1-carbamoyl-2-(4-hydroxy-phenyl)-eth-1-yl, 1-carbamoyl-2-phenyl-eth-1-yl, 2-amino-1,2-diphenyl-eth-1-yl, 2-

C2  
benzyloxycarbonyl-1-carbamoyl-eth-1-yl, 3-benzyloxycarbonyl-1-carbamoyl-prop-1-yl, 1-adamantyl-2-amino-prop-1-yl, 1-adamantyl-1-amino-prop-2-yl, (2-furyl)-methyl, (2-tetrahydrofuryl)-methyl, 2-pyrid-2-yl-ethyl, 2-piperidino-ethyl, 2-(morpholin-4-yl)-ethyl, 2-(3-indolyl)-ethyl, 2-(4-imidazolyl)-ethyl, 1-carbamoyl-2-( $\beta$ -indolyl)-eth-1-yl, 1-carbamoyl-2-imidazol-4-yl-eth-1-yl, 1-carbamoyl-2-indol-3-yl-eth-1-yl, 3-aminomethyl-oxetan-3-yl-methyl, 1-(acetoxymino)-1-(4-amino-2-oxa-1,3-diazol-5-yl)-methyl, 2-amino-cyclohex-1-yl, 3-amino-cyclohex-1-yl, 2-aminomethyl-3,3,5-trimethyl-cyclopent-1-yl, 3-amino-adamantan-1-yl, 2-carbamoyl-bicyclo[2.2.1]hept-5-en-3-yl, 2-carbamoyl-cyclohex-1-yl, 9-amino-spiro-[4.4]non-1-yl, 5-amino-2-oxa-1,3-diazol-4-yl, 4-amino-thien-3-yl, 3-carbamoyl-5-(3-[2,4-dichloro-phenyl]-1-oxo-prop-2-en-1-yl)-1,2-thiazol-4-yl, 3-carbamoyl-5-(3-[4-trifluoro-phenyl]-1-oxo-prop-2-en-1-yl)-1,2-thiazol-4-yl, 4-amino-2-(4-carboxy-butyl)-tetrahydrothiophen-3-yl, 3-amino-2-(4-carboxy-butyl)-tetrahydrothiophen-4-yl, [1,2,5]oxadiazolo[3,4-b](6-amino-pyrazin-5-yl), 2,5'-diacetyl-3-amino-thieno[2,3-b]thiophen-4'-yl or 3-amino-2,5'-dipivaloyl-thieno[2,3-b]thiophen-4'-yl, or  
b) R<sub>4</sub> and R<sub>5</sub> together are 1,2-ethylene, propane-1,3-diyl, butane-1,4-diyl, pentane-1,5-diyl, 3-(3-amino-propionyl)-3-aza-pentane-1,5-diyl, 1-aminomethyl-butane-1,4-diyl, 1-hydroxymethyl-butane-1,4-diyl, 3-(2-amino-ethyl)-pentane-1,5-diyl, 3-aza-pentane-1,5-diyl or 3-(2-amino-ethyl)-3-aza-pentane-1,5-diyl, or a salt thereof.

Please amend Claim 6 as follows:

C3  
Grand Decision  
6. (twice amended) A compound of the formula I according to claim [1]2, in which q is 1-3, R<sub>1</sub> is halogen[,], lower alkyl [or], lower alkoxy; N-lower alkyl-carbamoyl which is substituted in the lower alkyl moiety by hydroxyl; or trifluoromethyl, where, if more than one radical R<sub>1</sub> is present in the molecule, these can be identical or different from one another, R<sub>2</sub> is hydrogen, m and n are each 0 or 1, where m is 0 if n is 1 and m is 1 if n is 0, dashed lines represent a single bond which is located between N-7 and C-8 if m is 0 and located between C-8 and N-9 if m is 1.

*C3*  
R<sub>3</sub> is lower alkyl which is unsubstituted or substituted by hydroxyl and

a) R<sub>4</sub> is hydrogen or hydroxy-lower alkyl and

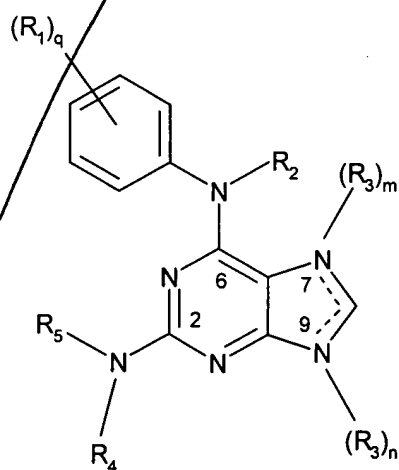
R<sub>5</sub> is 2-amino-cyclohexyl; or lower alkyl which is substituted by amino, lower alkylamino, ω-amino-lower alkylamino, [hydroxyl,] lower alkoxy, phenyl, 3-aminomethyl-phenyl, 2-furyl, 2-tetrahydrofuryl, 2-pyridyl, piperidino, morpholin-4-yl, 3-indolyl, mercapto, 1-hydroxy-cyclohex-1-yl or by 4-imidazolyl; or

b) R<sub>4</sub> and R<sub>5</sub> together are an alkylene radical which has not more than 10 C atoms and is unsubstituted or substituted by hydroxyl or amino, and in which 1 C atom can be replaced by nitrogen,

or a pharmaceutically acceptable salt thereof.

Please amend Claim 14 as follows:

*C4*  
14. (twice amended) A process for the preparation of a [2-amino-6-anilino-purine derivative] compound of the formula I



in which q [is 1-5,

R<sub>1</sub> is halogen, lower alkyl, hydroxyl or lower alkanoyloxy; lower alkoxy which is unsubstituted or substituted by hydroxyl, lower alkoxy or carboxyl; a radical of the formula -O(-CH<sub>2</sub>-CH<sub>2</sub>-O)<sub>t</sub>-R<sub>6</sub>, in which t is 2-5 and R<sub>6</sub> is hydrogen or lower alkyl; carboxyl, lower alkoxycarbonyl, piperazin-1-yl-carbonyl or carbamoyl; N-lower alkyl-carbamoyl which is unsubstituted in the lower alkyl moiety or substituted by hydroxyl or

C<sup>4</sup>  
amino; N,N-di lower alkyl-carbamoyl, cyano, nitro, amino, lower alkanoylamino, lower  
alkylamino, N,N-di-lower alkylamino, aminosulfonyl or trifluoromethyl, where, if several  
radicals R<sub>1</sub> are present in the molecule, these can be identical or different,

R<sub>2</sub> is hydrogen, carbamoyl or N-lower alkyl-carbamoyl,

m and n are each 0 or 1, where m is 0 if n is 1 and m is 1 if n is 0,

R<sub>3</sub> is lower alkyl or phenyl which are unsubstituted or in each case substituted by hydroxyl,  
lower alkoxy, amino, lower alkylamino or N,N-di-lower alkylamino and

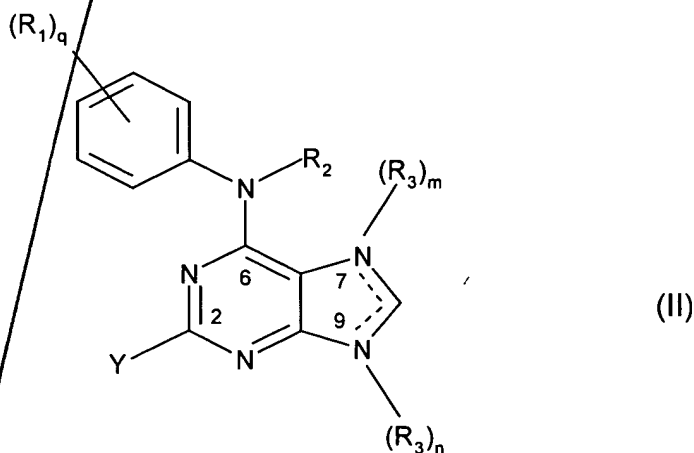
a) R<sub>4</sub> is hydrogen, amino, phenylamino, lower alkylamino, hydroxyl, phenoxy, lower alkoxy,  
acyl having 1-30 C atoms, a substituted aliphatic hydrocarbon radical having not more than  
29 C atoms, a carbocyclic radical having not more than 29 C atoms or a heterocyclic  
radical having not more than 20 C atoms and not more than 9 heteroatoms and

R<sub>5</sub> is amino, phenylamino, lower alkylamino, hydroxyl, phenoxy, lower alkoxy, acyl having  
2-30 C atoms, a substituted aliphatic hydrocarbon radical having not more than 29 C  
atoms, a carbocyclic radical having not more than 29 C atoms or a heterocyclic radical  
having not more than 20 C atoms and not more than 9 heteroatoms, or

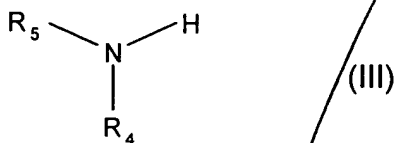
b) R<sub>4</sub> and R<sub>5</sub> together are a substituted or unsubstituted alkylene or alkenylene radical  
having in each case not more than 15 C atoms, in which 1-3 C atoms can be replaced by  
oxygen, sulfur or nitrogen,

or a salt thereof], R<sub>1</sub>, R<sub>2</sub>, m, n, R<sub>3</sub>, R<sub>4</sub> and R<sub>5</sub> are as defined in Claim 2, which comprises

a) reacting a compound of the formula II

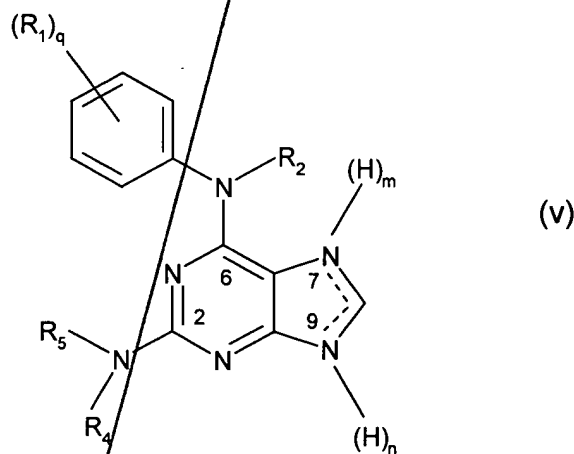


C4  
 in which Y is a suitable leaving group and the other substituents and symbols are as defined above for compounds of the formula I, free functional groups present therein, if necessary, being protected by easily detachable protective groups, with an amine of the formula III



in which the substituents are as defined above for compounds of the formula I, free functional groups present therein, if necessary, being protected by easily detachable protective groups [or, in accordance with the principle of latent functionality, being in a form which can be converted into the functional groups,] and detaching the protective groups present [and, if necessary, converting functional groups into the final form according to formula I], or

b) reacting a compound of the formula V



in which the substituents and symbols are as defined above for compounds of the formula I, free functional groups present therein, if necessary, being protected by easily detachable protective groups,



with a compound of the formula VI

$R_3-Y$

(VI)

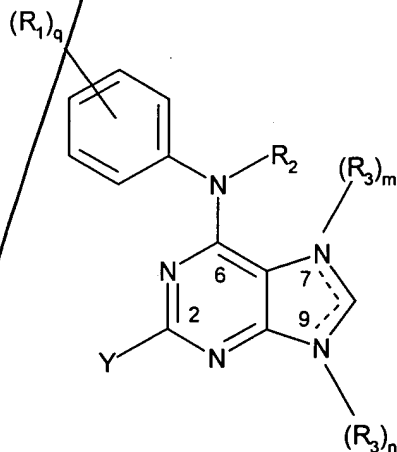
in which Y is a suitable leaving group and

$R_3$  is as defined above for compounds of the formula I, free functional groups present in  $R_3$ , if necessary, being protected by easily detachable protective groups, and detaching the protective groups present,

and, after carrying out process a) or b), if necessary for the preparation of a salt, converting a resulting free compound of the formula I into a salt or, if necessary for the preparation of a free compound, converting a resulting salt of a compound of the formula I into the free compound.

Please amend Claim 15 as follows:

15. (once amended) A compound of the formula II



in which q is 1-5,

$R_1$  is halogen; lower alkyl; hydroxyl; lower alkanoyloxy; lower alkoxy which is unsubstituted or substituted by hydroxyl, lower alkoxy or carboxyl; a radical of the formula  $-O(-CH_2-CH_2-O)_t-R_6$ , in which t is 2-5 and  $R_6$  is hydrogen or lower alkyl; carboxyl; lower alkoxy carbonyl; piperazin-1-yl-carbonyl; carbamoyl; N-lower alkyl-carbamoyl which is unsubstituted in the lower alkyl moiety or substituted by hydroxyl or amino; N,N-di-lower alkyl-carbamoyl;

cyano; nitro; amino; lower alkanoylamino; lower alkylamino; N,N-di-lower alkylamino; aminosulfonyl or trifluoromethyl, where, if more than one radical  $R_1$  is present in the molecule, these can be identical or different from one another,

$R_2$  is hydrogen, carbamoyl or N-lower alkyl-carbamoyl,

m and n are each 0 or 1, where m is 0 if n is 1 and m is 1 if n is 0,

dashed lines represent a single bond which is located between N-7 and C-8 if m is 0 and located between C-8 and N-9 if m is 1,

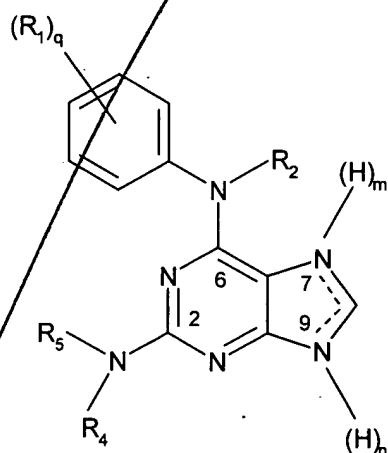
$R_3$  is lower alkyl or phenyl which are unsubstituted or in each case substituted by hydroxyl, lower alkoxy, amino, lower alkylamino or N,N-di-lower alkylamino and

Y is a suitable leaving group [and the other substituents and symbols are as defined in claim 1 for compounds of the formula I],

it being possible for free functional groups present therein to be protected by easily detachable protective groups,  
or a salt thereof.

Please amend Claim 16 as follows:

16. (once amended) A compound of the formula V



(v)

in which [the substituents and symbols are as defined in claim 1 for compounds of the formula I]  $q$  is 1 to 5,

$R_1$  is halogen; lower alkyl; hydroxyl; lower alkanoyloxy; lower alkoxy which is unsubstituted or substituted by hydroxyl, lower alkoxy or carboxyl; a radical of the formula  $-O(-CH_2-CH_2-$

C<sup>4</sup>  
O)-R<sub>6</sub>, in which t is 2-5 and R<sub>6</sub> is hydrogen or lower alkyl; carboxyl; lower alkoxy-carbonyl; piperazin-1-yl-carbonyl; carbamoyl; N-lower alkyl-carbamoyl which is unsubstituted in the lower alkyl moiety or substituted by hydroxyl or amino; N,N-di-lower alkyl-carbamoyl; cyano; nitro; amino; lower alkanoylamino; lower alkylamino; N,N-di-lower alkylamino; aminosulfonyl or trifluoromethyl, where, if more than one radical R<sub>1</sub> is present in the molecule, these can be identical or different from one another,

R<sub>2</sub> is hydrogen, carbamoyl or N-lower alkyl-carbamoyl,

m and n are each 0 or 1, where m is 0 if n is 1 and m is 1 if n is 0,

dashed lines represent a single bond which is located between N-7 and C-8 if m is 0 and located between C-8 and N-9 if m is 1, and

a) R<sub>4</sub> is hydrogen; amino; phenylamino; lower alkylamino; hydroxyl; phenoxy; lower alkoxy; an acyl radical of the part formula Z-C(=W)-, in which W is oxygen, sulfur or imino and Z is R<sup>0</sup>, R<sup>0</sup>-O- or an amino group of the formula R<sub>7</sub>(R<sub>8</sub>)N-, in which R<sup>0</sup> in each case is C<sub>1</sub>-C<sub>4</sub>alkyl, hydroxy-C<sub>2</sub>-C<sub>14</sub>alkyl, cyano-C<sub>1</sub>-C<sub>4</sub>alkyl, carboxy-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>1</sub>-C<sub>4</sub>alkoxy-carbonyl-C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>3</sub>-C<sub>7</sub>alkenyl or phenyl and R<sub>7</sub> and R<sub>8</sub> independently of one another are each hydrogen, lower alkyl, ω-amino-lower alkyl, lower alkylsulfonyl or phenyl;

an aliphatic hydrocarbon radical having not more than 29 C atoms, which is substituted by halogen, amino, lower alkylamino, ω-amino-lower alkylamino, lower alkanoylamino, benzoylamino, hydroxylamino, hydroxylimino, lower alkoxy-amino, phenyloxyamino, amino-cyclohexyl-amino-, amino-phenyl-amino-, carbamoyl-amino, (N-lower alkyl-carbamoyl)-amino, (N-[ω-amino-lower alkyl]-carbamoyl)-amino, (N-phenyl-carbamoyl)-amino, mercapto, lower alkylthio, thiocarbamoyl, thioureido, N-lower alkyl-thioureido, N-phenyl-thioureido, guanidino, N-lower alkyl-guanidino, carboxyl, lower alkoxy-carbonyl, phenyloxy-carbonyl, benzyloxy-carbonyl, hydroxylaminocarbonyl, carbamoyl, amidino, cyano, hydroxyl, lower alkoxy, phenoxy, aminocarbonyl-oxy, oxo, aminosulfonyl, lower alkylsulfonyl-amino, glycylamino, alanyl-amino, phenylalanyl-amino, prolylamino, valylamino, leucylamino, isoleucylamino, serylamino, threonylamino, cysteinylamino, methionylamino, tyrosylamino, tryptophanyl-amino, arginylamino, histidylamino, lysylamino, glutamylamino, glutaminylamino, asparagylamino, asparaginylamino or phenylglycylamino;

benzyl; 2-phenyl-ethyl; 3-aminomethyl-benzyl; (1-hydroxy-cyclohex-1-yl)-methyl; (2-amino-3,5,5-trimethyl-cyclopentyl)-methyl; 1-[N-(1-carboxy-2-phenyl-ethyl)-carbamoyl]-2-carbamoyl-eth-1-yl; 1-carbamoyl-1-phenyl-methyl; 1-carbamoyl-2-(4-hydroxyl-phenyl)-eth-

C4 1-yl; 1-carbamoyl-2-phenyl-eth-1-yl; 2-amino-1,2-diphenyl-eth-1-yl; 2-benzyloxycarbonyl-1-carbamoyl-eth-1-yl; 3-benzyloxycarbonyl-1-carbamoyl-prop-1-yl; 1-adamantyl-2-amino-prop-1-yl; 1-adamantyl-1-amino-prop-2-yl; (2-furyl)-methyl; (2-tetrahydrofuryl)-methyl; 2-pyrid-2-yl-ethyl; 2-piperidino-ethyl;

2-(morpholin-4-yl)-ethyl; 2-(3-indolyl)-ethyl; 2-(4-imidazolyl)-ethyl; 1-carbamoyl-2-( $\beta$ -indolyl)-eth-1-yl; 1-carbamoyl-2-imidazol-4-yl-eth-1-yl; 1-carbamoyl-2-indol-3-yl-eth-1-yl; 3-amino-methyl-oxetan-3-yl-methyl; 1-(acetoxy-imino)-1-(4-amino-2-oxa-1,3-diazol-5-yl)-methyl; 2-amino-cyclohex-1-yl; 3-amino-cyclohex-1-yl; 2-aminomethyl-3,3,5-trimethyl-cyclopent-1-yl; 3-amino-adamantan-1-yl; 2-carbamoyl-bicyclo[2.2.1]hept-5-en-3-yl; 2-carbamoyl-cyclohex-1-yl; 9-amino-spiro[4.4]non-1-yl;

5-amino-2-oxa-1,3-diazol-4-yl; 4-amino-thien-3-yl; 3-carbamoyl-5-(3-[2,4-dichloro-phenyl]-1-oxo-prop-2-en-1-yl)-1,2-thiazol-4-yl; 3-carbamoyl-5-(3-[4-trifluoro-phenyl]-1-oxo-prop-2-en-1-yl)-1,2-thiazol-4-yl; 4-amino-2-(4-carboxy-butyl)-tetrahydrothiophen-3-yl; 3-amino-2-(4-carboxy-butyl)-tetrahydrothiophen-4-yl; [1,2,5]oxadiazolo[3,4-b](6-amino-pyrazin-5-yl); 2,5'-diacetyl-3-amino-thieno[2,3-b]thiophen-4'-yl or 3-amino-2,5'-dipivaloyl-thieno[2,3-b]thiophen-4'-yl, and

R<sub>5</sub>, independently of R<sub>4</sub>, is as defined above for R<sub>4</sub>, with the exception of hydrogen and an aliphatic hydrocarbon radical having not more than 29 C atoms, which is substituted by hydroxyl, or

b) R<sub>4</sub> and R<sub>5</sub> together are 1,2-ethylene, propane-1,3-diyl, butane-1,4-diyl, pentane-1,5-diyl, 3-(3-amino-propionyl)-3-aza-pentane-1,5-diyl, 1-aminomethyl-butane-4-diyl, 1-hydroxymethyl-butane-1,4-diyl, 3-(2-amino-ethyl)-pentane-1,5-diyl, 3-aza-pentane-1,5-diyl or 3-(2-amino-ethyl)-3-aza-pentane-1,5-diyl, it being possible for free functional groups present therein to be protected by easily detachable protective groups.

Please add the following new claims:

C5 *Board Decision*  
-- 17. A compound of the formula I according to claim 2 selected from the group consisting of  
6-(4-benzyloxycarbonylamino-phenyl-amino)-9-ethyl-2-(2-hydroxy-ethyl-amino)-9H-purine,  
6-(4-fluoro-phenyl-amino)-9-ethyl-2-(trans-4-hydroxy-cyclohexyl-amino)-9H-purine,  
9-ethyl-2-(trans-4-hydroxy-cyclohexyl-amino)-6-(4-trifluoromethyl-phenyl-amino)-9H-purine,